SEQUENCE LISTING

SEQ ID NO: 1

LENGTH : 377

TYPE : amino acid

TOPOLOGY : linear

MOLECULE TYPE : peptide

SEQUENCE DESCRIPTION:

Met Lys Phe Pro Gly Pro Leu Glu Asn Gln Arg Leu Ser Phe Leu
5 10 15

Leu Glu Lys Ala Ile Thr Arg Glu Ala Gln Met Trp Lys Val Asn
20 25 30

Val Arg Lys Met Pro Ser Asn Gln Asn Val Ser Pro Ser Gln Arg
35 40 45

Asp Glu Val Ile Gln Trp Leu Ala Lys Leu Lys Tyr Gln Phe Asn
50 55 60

Leu Tyr Pro Glu Thr Phe Ala Leu Ala Ser Ser Leu Leu Asp Arg
65 70 75

Phe Leu Ala Thr Val Lys Ala His Pro Lys Tyr Leu Ser Cys Ile
80 85 90

Ala Ile Ser Cys Phe Phe Leu Ala Ala Lys Thr Val Glu Glu Asp
95 100 105

Glu Arg Ile Pro Val Leu Lys Val Leu Ala Arg Asp Ser Phe Cys
110 115 120

Gly Cys Ser Ser Ser Glu Ile Leu Arg Met Glu Arg Ile Ile Leu
125 130 135

Asp Lys Leu Asn Trp Asp Leu His Thr Ala Thr Pro Leu Asp Phe

140 145 150

Leu His Ile Phe His Ala Ile Ala Val Ser Thr Arg Pro Gln Leu

155 160 165

Leu Phe Ser Leu Pro Lys Leu Ser Pro Ser Gln His Leu Ala Val

170 175 180

Leu Thr Lys Gln Leu Leu His Cys Met Ala Cys Asn Gln Leu Leu

185 190 195

Gln Phe Arg Gly Ser Met Leu Ala Leu Ala Met Val Ser Leu Glu

200 205 210

Met Glu Lys Leu Ile Pro Asp Trp Leu Ser Leu Thr Ile Glu Leu

215 220 225

Leu Gln Lys Ala Gln Met Asp Ser Ser Gln Leu Ile His Cys Arg

230 235 240

Glu Leu Val Ala His His Leu Ser Thr Leu Gln Ser Ser Leu Pro

245 250 255

Leu Asn Ser Val Tyr Val Tyr Arg Pro Leu Lys His Thr Leu Val

260 265 270

Thr Cys Asp Lys Gly Val Phe Arg Leu His Pro Ser Ser Val Pro

275 280 285

Gly Pro Asp Phe Ser Lys Asp Asn Ser Lys Pro Glu Val Pro Val

290 295 300

Arg Gly Thr Ala Ala Phe Tyr His His Leu Pro Ala Ala Ser Gly

305 310 315

Cys Lys Gln Thr Ser Thr Lys Arg Lys Val Glu Glu Met Glu Val

320 325 330

Asp Asp Phe Tyr Asp Gly Ile Lys Arg Leu Tyr Asn Glu Asp Asn

335 340 345

Val Ser Glu Asn Val Gly Ser Val Cys Gly Thr Asp Leu Ser Arg

350 355 360

Gln Glu Gly His Ala Ser Pro Cys Pro Pro Leu Gln Pro Val Ser

365 370 375

Val Met

SEQ ID NO: 2

LENGTH : 1134

TYPE : nucleic acid

STRANDEDNESS : double

TOPOLOGY : linear

MOLECULE TYPE : DNA

SEQUENCE DESCRIPTION:

ATG AAG TTT CCA GGG CCT TTG GAA AAC CAG AGA TTG TCT TTC CTG 45

TTG GAA AAG GCA ATC ACT AGG GAA GCA CAG ATG TGG AAA GTG AAT 90

GTG CGG AAA ATG CCT TCA AAT CAG AAT GTT TCT CCA TCC CAG AGA 135

GAT GAA GTA ATT CAA TGG CTG GCC AAA CTC AAG TAC CAA TTC AAC 180

CTT TAC CCA GAA ACA TTT GCT CTG GCT AGC AGT CTT TTG GAT AGG 225

TTT TTA GCT ACC GTA AAG GCT CAT CCA AAA TAC TTG AGT TGT ATT 270

GCA ATC AGC TGT TTT TTC CTA GCT GCC AAG ACT GTT GAG GAA GAT 315

GAG AGA ATT CCA GTA CTA AAG GTA TTG GCA AGA GAC AGT TTC TGT 360

GGA TGT TCC TCA TCT GAA ATT TTG AGA ATG GAG AGA ATT ATT CTG 405

GAT AAG TTG AAT TGG GAT CTT CAC ACA GCC ACA CCA TTG GAT TTT 450

CTT CAT ATT TTC CAT GCC ATT GCA GTG TCA ACT AGG CCT CAG TTA 495

CTT TTC AGT TTG CCC AAA TTG AGC CCA TCT CAA CAT TTG GCA GTC 540

CTT ACC AAG CAA CTA CTT CAC TGT ATG GCC TGC AAC CAA CTT CTG 585

CAA TTC AGA GGA TCC ATG CTT GCT CTG GCC ATG GTT AGT CTG GAA 630

ATG GAG AAA CTC ATT CCT GAT TGG CTT TCT CTT ACA ATT GAA CTG 675

CTT CAG AAA GCA CAG ATG GAT AGC TCC CAG TTG ATC CAT TGT CGG 720

GAG CTT GTG GCA CAT CAC CTT TCT ACT CTG CAG TCT TCC CTG CCT 765

CTG AAT TCC GTT TAT GTC TAC CGT CCC CTC AAG CAC ACC CTG GTG 810

ACC TGT GAC AAA GGA GTG TTC AGA TTA CAT CCC TCC TCT GTC CCA 855

GGC CCA GAC TTC TCC AAG GAC AAC AGC AAG CCA GAA GTG CCA GTC 900

AGA GGT ACA GCA GCC TTT TAC CAT CAT CTC CCA GCT GCC AGT GGG 945

TGC AAG CAG ACC TCT ACT AAA CGC AAA GTA GAG GAA ATG GAA GTG 990

GAT GAC TTC TAT GAT GGA ATC AAA CGG CTC TAT AAT GAA GAT AAT 1035

GTC TCA GAA AAT GTG GGT TCT GTG TGT GGC ACT GAT TTA TCA AGA 1080

CAA GAG GGA CAT GCT TCC CCT TGT CCA CCT TTG CAG CCT GTT TCT 1125

GTC ATG TAG 1134

SEQ ID NO : 3

LENGTH : 33

TYPE : nucleic acid

STRANDEDNESS : double

TOPOLOGY : linear

MOLECULE TYPE : DNA

SEQUENCE LISTING

CGTTCCCGGG TATGAAGTTT CCAGGGCCTT TGG 33

SEQ ID NO : 4

LENGTH : 31

TYPE : nucleic acid

STRANDEDNESS : double

TOPOLOGY : linear

MOLECULE TYPE : DNA

SEQUENCE LISTING

ACGGCTCGAG CTACATGACA GAAACAGGCT G 31

SEQ ID NO : 5

LENGTH : 14

TYPE : amino acid

TOPOLOGY : linear

MOLECULE TYPE : peptide

SEQUENCE LISTING

Glu Asp Asn Val Ser Glu Asn Val Gly Ser Val Cys Gly Thr
5 10